

CM100

DATASHEET

Dual Sensor Gyro-Stabilized Gimbal

IP63

800 g

LWIR

Low SWaP-C



Technical Specifications

Gimbal Capabilities

Mechanical Axes	2 (Pan and Tilt)
Position Accuracy	0.022° (380 µrad)
Elevation	±120°
Azimuth	360° Continuous
Slew Rate	105°/sec (1.83 rad/s)
Power	12W
Voltage	9 – 36V
Modes	Rate/ Scene/ Track/ GEO-Lock
Communication Link	Ethernet / RS232 Communication Libraries Available

Hardware

Weight	800g
Diameter	100mm
Height	129mm
Temperature	-10°C to +50°C
Environment	IP63
MTBF	> 1000 hours
Shock Limit	20 G
Peripherals	1x GPIO
GPIO Functions	Power Ethernet RS232 AHRS Composite Video

Video Specifications

Analogue Output	Composite
Digital Output	h.264 MPEG2 TS / (RTP) MPEG4 MPEG2 TS / (RTP)
Snapshots	1280x720 (Stored On Board)
Standards	MISB (0102.10, 0601.7, 0603.2, 0604.3, and 0903.3) & STANAG (4609) Compliant

Compatible INS

Spatial	✓
Spatial Dual	✓
MicroPilot	✓

Internal Video Processor Features

Recording on Board	✓	Encoding	✓	Object Tracking	✓	E-Stabilization	✓	Scene Steering
---------------------------	---	-----------------	---	------------------------	---	------------------------	---	-----------------------

Standard Configurations

Electro-Optical (EO)



Type	CCD Global Shutter
Resolution	1280 x 720
FoV	31.4° Wide to 1.1° Tele
Zoom	30x Optical
Frame Rate	Up to 30 Hz

Infrared (IR)



Sensor	Quark 336
Lens	19/ 25/ 35 mm
Type	LWIR
Resolution	640x480
Zoom	2x, 4x Digital
Frame Rate	Up to 30 Hz



Sensor	Quark 640
Lens	19/ 25/ 35 mm
Type	LWIR
Resolution	640x480
Zoom	2x, 4x, 8x Digital
Frame Rate	Up to 30 Hz

Laser



Sensor	Nano Point
Wavelength	852nm
Class	IIIB
Power	Up to 150mW

Other sensor configurations are available. Contact a member of the sales team for more information.

Detect, Recognize, Identify

	EO at 1.1° HD	IR at 32° 19mm Lens	IR at 25° 25mm Lens	IR at 18° 35mm Lens
 Detect	6,500 m	340 m	440 m	610 m
Recognize	3,370 m	110 m	150 m	200 m
Identify	1,900 m	60 m	80 m	120 m
 Detect	17,000 m	740 m	960 m	1,350 m
Recognize	7,410 m	250 m	320 m	450 m
Identify	4,170 m	140 m	180 m	250 m